

*Listing of the Claims*

This listing of claims will replace all prior versions, and listings of claims in the application.

1-70 (Canceled).

- 71. (New) A composition for amplifying a target nucleic acid, said composition comprising a first primer comprising a random sequence of nucleotides at its 3' end and a generic sequence 5' of the random nucleotides; a second primer comprising said generic sequence and lacking said random sequence; and a heat-stable DNA polymerase.
- 72. (New) The composition of claim 71, wherein said first primer and said second primer are between about 5 and 100 nucleotides in length.
- 73. (New) The composition of claim 71, wherein said random sequence comprises about 4 to about 9 nucleotides.
- 74. (New) The composition of claim 73, wherein said random sequence comprises about 5 to about 8 nucleotides.
- 75. (New) The composition of claim 71, wherein said generic sequence comprises about 10 to about 30 nucleotides.
- 76. (New) The composition of claim 75, wherein said generic sequence comprises about 15 to about 25 nucleotides.

77. (New) The composition of claim 71, wherein said random sequence and said generic sequence in said first primer are adjacent.
78. (New) The composition of claim 71, wherein one or more nucleotides are inserted between said random sequence and said generic sequence in said first primer.
79. (New) The composition of claim 71, wherein said first primer comprises additional nucleotides 5' of said generic sequence.
80. (New) The composition of claim 71, wherein said random sequence of said first primer is A-T rich.
81. (New) The composition of claim 71, wherein said random sequence of said first primer is G-C rich.
82. (New) The composition of claim 71, wherein said heat-stable polymerase has 5' to 3' exonuclease activity.
83. (New) The composition of claim 71, wherein said heat-stable polymerase has primer displacement activity.
84. (New) The composition of claim 82, wherein said heat-stable polymerase is *Taq* polymerase.
85. (New) The composition of claim 71, wherein said heat-stable polymerase is selected from the group consisting of *Pfu* DNA polymerase, Vent DNA polymerase, *Tub* DNA polymerase, *Tfl* DNA polymerase, *Tli* DNA polymerase and *Tth* DNA polymerase.

86. (New) The composition of claim 71, wherein one or both of said primers comprise a label selected from the group consisting of a ligand, antibody and affinity label.
87. (New) The composition of claim 71, wherein one or both of said primers comprise a label selected from the group consisting of a fluorescent label, radioactive label, mass label, chromophore, dye, electroluminescent label, chemiluminescent label and enzymatic label.
88. (New) The composition of claim 71, wherein one or both of said primers comprises one or more restriction sites.
89. (New) The composition of claim 71, further comprising one or more dNTPs.
90. (New) The composition of claim 71, further comprising one or more buffer salts.
91. (New) The composition of claim 71, further comprising a target nucleic acid.
92. (New) The composition of claim 91, wherein said target nucleic acid is DNA.
93. (New) The composition of claim 92, wherein said DNA is selected from the group consisting of genomic DNA, microdissected chromosome DNA, yeast artificial chromosome (YAC) DNA, P1 phage DNA and bacterial artificial chromosome (BAC) DNA.
94. (New) The composition of claim 92, wherein said DNA is obtained from a tissue sample.
95. (New) The composition of claim 92, wherein said DNA is human DNA.
96. (New) The composition of claim 91, wherein said target nucleic acid is RNA or mRNA.